

CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 – 35. Cancelled

36. (Currently Amended) An air permeable panel engaging an intermediate cladding layer having filtering characteristics, the air permeable panel supporting the intermediate cladding layer and comprising:

a plurality of projections interconnected in a lattice configuration, said projections each having a pointed tip portion and being embedded into the intermediate cladding layer, the respective pointed tip portions being arranged to face in a common direction ~~to engage with the intermediate cladding layer~~, each said projection further having a base periphery at which adjacent projections are interconnected, the base peripheries being interconnected such that apertures are defined between the base peripheries in the lattice configuration.

37. (Previously Presented) An air permeable panel according to claim 36, wherein said projections have a pyramidal form.

38. (Previously Presented) An air permeable panel according to claim 36, wherein the projections are provided as a hollowed element.

39. (Previously Presented) An air permeable panel according to claim 36, wherein the projections are configured to restrict penetration thereof into the intermediate cladding layer.

40. (Currently Amended) An air permeable panel according to claim 39, wherein the cross-sectional area of each projection increases along its longitudinal axis away from their pointed tip portion.

41. (Previously Presented) An air permeable panel according to claim 36, comprising a second air permeable panel, wherein the air permeable panels are provided on both faces of said intermediate cladding layer.

42. (Currently Amended) A building cladding system comprising an air permeable panel according to claim 36 and a first wall member,

wherein, said first wall member is for forming a wall of a building's envelope, and wherein said ~~breathing-wall~~ air permeable panel is located adjacent to the first wall member and is coupled thereto.

43. (Currently Amended) A building cladding system according to claim 42, further comprising a second wall member, said second wall member for forming an external wall of the building's envelope,

wherein said first wall member forms an internal wall of the building's envelope, and

wherein said ~~breathing-wall~~ air permeable panel is provided between said internal and external walls.

44. (Currently Amended) A building cladding system according to claim 42, further comprising one or more edge members, configured to interconnect adjacent ~~breathing-wall~~ air permeable panels.

45. (Currently Amended) A building cladding system according to claim 44, wherein the edge members have limbs in a cross formation, the limbs being inclined similarly to surfaces of the projections on adjacent ~~breathing-wall~~ air permeable panels for abutment thereto.

46. (Currently Amended) An air permeable panel engaging with an intermediate cladding layer having filtering characteristics, the air permeable panel supporting the intermediate cladding layer by engaging with it, said air permeable panel comprising:

a plurality of hollowed elements interconnected in a planar lattice arrangement, said hollowed elements facing in a common direction and being interspersed with apertures, the hollowed elements being interconnected at their base peripheries to define said apertures therebetween,

wherein the hollowed elements have a pointed outer surface forming a pointed tip and are embedded into the intermediate cladding layer for supporting the intermediate cladding layer.

47. Canceled

48. (Previously Presented) An air permeable panel according to claim 46, wherein each hollowed element has a pyramidal form.

49. (Previously Presented) An air permeable panel according to claim 46, wherein the intermediate cladding layer has a graduated filtering profile.

50. (Previously Presented) An air permeable panel according to claim 46, wherein the filtering characteristics of the intermediate cladding layer are such as to trap

relatively large particles towards an outer surface thereof and to trap relatively smaller particles towards the inner surface thereof.

51. (Previously Presented) An air permeable panel according to claim 46, wherein the intermediate cladding layer has at least one of thermal insulating properties and sound insulating properties.

52. (Currently Amended) An air permeable panel according to claim 46, wherein the intermediate cladding layer comprises one or more of: mineral wool, wet-blown cellulose and glass wool.

53. (Previously Presented) An air permeable panel according to claim 46, wherein the intermediate cladding layer is provided in the form of one or more of: membranes, fibres, pulp or cellular based (foam or sponge) materials, or modified aerated concrete.

54. (Currently Amended) An air permeable panel according to claim 46, wherein the intermediate cladding layer comprises filter materials for one or more of: particulate emissions, gas pollutants, chemical agents and biological agents.

55. (Previously Presented) An air permeable panel according to claim 46, wherein the intermediate cladding layer is provided in the form of one or more panel units.

56. (Previously Presented) An air permeable panel according to claim 55, wherein the panel units forming the intermediate cladding layer are provided in modular format.

57. (Previously Presented) An air permeable panel according to claim 46, wherein the intermediate cladding layer is formed of a plurality of one or more separate filter layers of different filtering characteristics.

58. (Previously Presented) An air permeable panel according to claim 57, wherein each filter layer of the intermediate cladding layer is selected to extract a specified range of particle sizes, gaseous pollutants, chemical pollutants, and/or biological agents.

59. (Previously Presented) An air permeable panel according to claim 58, wherein the separate filter layers of the intermediate cladding layer together define substantially the complete filter spectrum of particulate and other pollution.

60. (Currently Amended) An air permeable panel according to claim 58, wherein ~~the or~~ each filter layer of the intermediate cladding layer is independently replaceable.

61. (Currently Amended) An air permeable panel according to claim 58, wherein ~~the or~~ each filter layer of the intermediate cladding layer comprises one or more disposable filter elements.

62. (Previously Presented) An air permeable panel according to claim 46, wherein the air permeable panel is pressed from a single sheet.

63. (Previously Presented) An air permeable panel according to claim 46, wherein the air permeable panel is moulded from a plastics material.

64. (Previously Presented) An air permeable panel according to claim 46, wherein the air permeable panel is formed of a fire retardant material.

65. (Previously Presented) An air permeable panel according to claim 46, wherein in use with the hollowed elements at or adjacent the intermediate cladding layer, the apertures present an opening of expanding volume onto the intermediate cladding layer.

66. (Previously Presented) A building cladding system comprising one or more breathing wall air permeable panels and an intermediate cladding layer having filtering characteristics,

wherein the one or more breathing wall air permeable panels comprises a plurality of projections interconnected in a lattice configuration, said projections each having a tip portion, the respective tip portions being arranged to face in a common direction for engagement, in use, with said intermediate cladding layer, each said projection further having a base periphery at which adjacent projections are interconnected, the base peripheries being interconnected such that apertures are defined between the base peripheries in the lattice configuration;

wherein the one or more breathing wall air permeable panels are provided on one or both faces of said intermediate cladding layer such that their tip portions are in engagement with the intermediate cladding layer;

wherein the building cladding system further comprises a first wall member, said first wall member for forming a wall of the envelope of a building, wherein said

intermediate cladding layer and the one or more breathing wall air permeable panels are located adjacent to the first wall member and are coupled thereto;

wherein the building cladding system further comprises one or more edge members, configured to interconnect adjacent intermediate cladding layers, said edge members having limbs in a cross formation, the limbs being inclined similarly to surfaces of the projections on adjacent panels for abutment thereto.

67. (Currently Amended) A breathing wall panel comprising:

an intermediate cladding layer having filtering characteristics; and

an air permeable panel for supporting said intermediate cladding layer, said air permeable panel comprising a plurality of projections interconnected in a lattice configuration, said projections each having a pointed tip portion and being embedded into the intermediate cladding layer, the respective pointed tip portions being arranged to face in a common direction ~~to engage with the intermediate cladding layer~~, each said projection further having a base periphery at which adjacent projections are interconnected, the base peripheries being interconnected such that apertures are defined between the base peripheries in the lattice configuration.